

**November
2014
Engineering
Science N2
Memo Mnebel**

Images play a
key role for
scholarly work
in many ways -
they facilitate

communication
and support
understanding
or make
research
results look
more appealing.
At the same
time powerful
image-editing
programs have
profoundly
changed how

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image
manipulations
are perceived
today. This
book explores
how scholars
from different
domains
conceive image
manipulation.
The study is
based on
research

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carried out at
the Interdiscip
linary
Laboratory
Image Knowledge
Gestaltung at
Humboldt
University
Berlin.

Informants from
the field of
biology,
computer

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science, art
history and
design explain
how they
differentiate
between
appropriate and
inappropriate
image
manipulation.
Furthermore
these experts
report on

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whether
guidelines or
practical
logics shape
their work with
images.

This volume
contains papers
presented at
the
International
Conference on
Engineering

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Technologies,
Engineering
Education and
Engineering
Management
(ETEEEM 2014,
Hong Kong,
15-16 November
2014). A wide
variety of
topics is
included in the
book: -

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Engineering
Education -
Education
Engineering and
Technology -
Methods and
Learning
Mechanism
This book
discusses the
technological
developments
achieved by

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distinguished
figures in the
history of
mechanism and
machine science
(MMS). This is
the fifth
volume of a
series of books
which gathered
contributions
on the leading
scientists in

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the field. This book focuses specifically on the IFToMM community and its activities over the last 50 years, showcases who-is-who in MMS, and emphasizes—together with the previous

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books of the series—the significance of MMS through time. Each chapter recognizes persons whose scientific work resulted in relevant technical developments in

the historical
evolution of
MMS within
IFTOMM.
Biographical
notes
describing the
efforts and
achievements of
these persons
are included as
well, but a
technical

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survey is the
core of each
chapter,
offering a
modern
interpretation
of their
legacy.

The 2016
International
Conference on
Civil,
Architecture

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and
Environmental
Engineering
(ICCAE 2016),
November 4-6,
2016, Taipei,
Taiwan, is
organized by
China
University of
Technology and
Taiwan Society
of Construction

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Engineers,
aimed to bring
together
professors,
researchers,
scholars and
industrial
pioneers from
all over the
world. ICCAE
2016 is the
premier forum
for the

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presentation
and exchange of
experience,
progress and
research
results in the
field of
theoretical and
industrial
experience. The
conference
consists of
contributions

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promoting the
exchange of
ideas between
researchers and
educators all
over the world.
Proceedings of
the 2nd
International
Conference on
Energy
Equipment
Science and

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Engineering
(ICEESE 2016),
November 12-14,
2016,
Guangzhou,
China
Leadership and
Women in
Statistics
Handbook of
Research on
Cloud and Fog
Computing

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Infrastructures
for Data
Science
Advances in
Architecture,
Engineering and
Technology
Advances in
Energy Science
and Equipment
Engineering II
Volume 1
Geomechanical

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and
Petrophysical
Properties of
Mudrocks
Merging
Instructional
Design with
Teaching and
Learning
Research
The 5th edition of the
prestigious AECT
Handbook continues

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previous efforts to reach outside the traditional instructional design and technology community to the learning sciences and computer information systems communities toward developing a conceptualization of the field. However, given the pervasive and increasingly complex role technology now plays in

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education since the 1st edition of the Handbook in 1996, the editors have reorganized the research chapters in this edition to focus on the learning problems we are trying to solve with educational technologies, rather than to focus on the things we are using to solve those problems. Additionally, for the first time this edition of the Handbook

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reflects our field ' s
growing understanding
of the importance of
design scholarship to
inform practice by
including design case
chapters. These changes
for this edition of the
Handbook are intended
to bring educational
technology research into
the broader framework of
educational research by
elaborating on the role

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instructional design and technology plays as a scholarly discipline in addressing education ' s increasingly complex issues. Provides comprehensive reviews of new developments in educational technology research and design practice. Includes concrete examples to guide future research and practice in the ways

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emerging technologies can be used to solve educational problems. Contains extensive references furnished to guide readers to the most recent research and design practice in the field of instructional design and technology. Civil and environmental engineers work together to develop, build, and maintain the man-made

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and natural environments that make up the infrastructures and ecosystems in which we live and thrive. Civil and Environmental Engineering: Concepts, Methodologies, Tools, and Applications is a comprehensive multi-volume publication showcasing the best research on topics pertaining to road design,

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building maintenance and construction, transportation, earthquake engineering, waste and pollution management, and water resources management and engineering.

Through its broad and extensive coverage on a variety of crucial concepts in the field of civil engineering, and its subfield of environmental

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engineering, this multi-volume work is an essential addition to the library collections of academic and government institutions and appropriately meets the research needs of engineers, environmental specialists, researchers, and graduate-level students.

A detailed and thorough reference on the

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discipline and practice of systems engineering The objective of the International Council on Systems Engineering (INCOSE) Systems Engineering Handbook is to describe key process activities performed by systems engineers and other engineering professionals throughout the life cycle of a system. The book covers a wide

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range of fundamental system concepts that broaden the thinking of the systems engineering practitioner, such as system thinking, system science, life cycle management, specialty engineering, system of systems, and agile and iterative methods. This book also defines the discipline and practice of systems engineering for

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students and practicing professionals alike, providing an authoritative reference that is acknowledged worldwide. The latest edition of the INCOSE Systems Engineering Handbook: Is consistent with ISO/IEC/IEEE 15288:2015 Systems and software engineering—System life cycle processes and the

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Guide to the Systems Engineering Body of Knowledge (SEBoK) Has been updated to include the latest concepts of the INCOSE working groups
Is the body of knowledge for the INCOSE Certification Process
This book is ideal for any engineering professional who has an interest in or needs to apply systems engineering practices.

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This includes the experienced systems engineer who needs a convenient reference, a product engineer or engineer in another discipline who needs to perform systems engineering, a new systems engineer, or anyone interested in learning more about systems engineering. What do eggs, flour, and

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milk have in common?
They form the basis of
crepes of course, but they
also each have an
evolutionary purpose.
Eggs, seeds (from which
flour is derived by
grinding) and milk are
each designed by
evolution to nourish
offspring. Everything we
eat has an evolutionary
history. Grocery shelves
and restaurant menus are

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bounteous evidence of evolution at work, though the label on the poultry will not remind us of this with a Jurassic sell-by date, nor will the signs in the produce aisle betray the fact that corn has a 5,000 year history of artificial selection by pre-Colombian Americans. Any shopping list, each recipe, every menu and all ingredients can be

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used to create culinary and gastronomic magic, but can also each tell a story about natural selection, and its influence on our plates--and palates. Join in for multiple courses, for a tour of evolutionary gastronomy that helps us understand the shape of our diets, and the trajectories of the foods that have been central to

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them over
centuries--from spirits to
spices. This literary repast
also looks at the science
of our interaction with
foods and cooking--the
sights, the smells, the
tastes. The menu has its
eclectic components, just
as any chef is entitled. But
while it is not a
comprehensive work
which might risk
gluttony, this is more

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than an amuse bouche,
and will leave every
reader hungry for more.
Achieving Positive
Outcomes in a Complex
World
Mechanics of Hydraulic
Fracturing
Food, Drink, and
Evolution
Natural Hazards
Engineering Research
Infrastructure (NHRI)
2016-2020: Mitigating

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the Impact of Natural
Hazards on Civil
Infrastructure and
Communities
Learning Design
Proceedings of the
International Conference
ICCAE, Taipei, Taiwan,
November 4-6, 2016
Special Issue for the
International Association
of Engineers Conferences
2014

The 2016 2nd
Page 39/274

International
Conference on
Energy Equipment
Science and
Engineering
(ICEESE 2016) will
be held on
November 12-14,
2016 in Guangzhou,
China. ICEESE
2016 is to bring
together innovative

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academics and industrial experts in the field of energy equipment science and engineering to a common forum. The primary goal of the conference is to promote research and developmental activities in energy equipment science

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and engineering and
another goal is to
promote scientific
information
interchange between
researchers,
developers,
engineers, students,
and practitioners
working all around
the world. The
conference will be

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held every year to make it an ideal platform for people to share views and experiences in energy equipment science and engineering and related areas.

Fog computing is quickly increasing its applications and uses

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to the next level. As it continues to grow, different types of virtualization technologies can thrust this branch of computing further into mainstream use. The Handbook of Research on Cloud and Fog Computing Infrastructures for

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Data Science is a key reference volume on the latest research on the role of next-generation systems and devices that are capable of self-learning and how those devices will impact society. Featuring wide-ranging coverage

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across a variety of relevant views and themes such as cognitive analytics, data mining algorithms, and the internet of things, this publication is ideally designed for programmers, IT professionals, students,

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researchers, and engineers looking for innovative research on software-defined cloud infrastructures and domain-specific analytics.

In an effort to create a more educated workforce in the United States, many community colleges

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are implementing new practices and strategies to assist under-prepared students. These efforts will ultimately support a stronger and more resilient global workforce.

Examining the
Impact of
Community Colleges

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on the Global
Workforce provides
relevant theoretical
and conceptual
frameworks, best
practices, and
emerging empirical
research about new
approaches being
employed in
community colleges
to prepare students

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for their post-collegiate careers. Featuring recent initiatives in educational settings, this publication is a critical reference source for higher education practitioners, policymakers, and graduate students in

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higher education
administration
programs interested
in the innovative
practices utilized by
community colleges
to educate
underserved
students.

The two volumes
LNCS 11935 and
11936 constitute the

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proceedings of the
9th International
Conference on
Intelligence Science
and Big Data
Engineering, IScIDE
2019, held in
Nanjing, China, in
October 2019. The
84 full papers
presented were
carefully reviewed

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and selected from
252 submissions. The
papers are organized
in two parts: visual
data engineering;
and big data and
machine learning.
They cover a large
range of topics
including
information
theoretic and

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Bayesian
approaches,
probabilistic
graphical models,
big data analysis,
neural networks and
neuro-informatics,
bioinformatics,
computational
biology and brain-
computer interfaces,
as well as advances

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in fundamental
pattern recognition
techniques relevant
to image processing,
computer vision and
machine learning.

Proceedings of the
2014 Annual
Congress on
Advanced
Engineering and
Technology (CAET

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2014), Hong Kong,
19-20 April 2014
Handbook of
Research in
Educational
Communications
and Technology
Civil, Architecture
and Environmental
Engineering Volume
2
Building Resiliency

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and Mitigating
Vulnerability in the
Balkan Region
Handbook of Clean
Energy Systems, 6
Volume Set
Proceedings of the
2014 International
Conference on
Engineering
Technology,
Engineering

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Education and
Engineering
Management
(ETEEEM 2014),
Hong Kong, 15-16
November 2014
ICNBME-2015,
September 23-26,
2015, Chisinau,
Republic of
Moldova
“Neutrosophic

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Sets and
Systems” has
been created for
publications on
advanced studies
in neutrosophy,
neutrosophic set,
neutrosophic logic,
neutrosophic
probability,
neutrosophic
statistics that

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started in 1995
and their
applications in any
field, such as the
neutrosophic
structures
developed in
algebra, geometry,
topology, etc.
Teacher Education
and Practice, a
peer-refereed

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journal, is
dedicated to the
encouragement
and the
dissemination of
research and
scholarship related
to professional
education. The
journal is
concerned, in the
broadest sense,

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with teacher preparation, practice and policy issues related to the teaching profession, as well as being concerned with learning in the school setting. The journal also serves as a forum for the

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exchange of
diverse ideas and
points of view
within these
purposes. As a
forum, the journal
offers a public
space in which to
critically examine
current discourse
and practice as
well as engage in

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generative
dialogue.
Alternative forms
of inquiry and
representation are
invited, and
authors from a
variety of
backgrounds and
diverse
perspectives are
encouraged to

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contribute.

Teacher Education
& Practice is
published by
Rowman &
Littlefield.

This book explores
current and
emerging trends in
policy, strategy,
and practice
related to cyber

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operations
conducted by
states and non-
state actors. The
book examines in
depth the nature
and dynamics of
conflicts in the
cyberspace, the
geopolitics of
cyber conflicts,
defence strategy

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and practice, cyber intelligence and information security.

Thorough and detailed, The Carbon Footprint Handbook encompasses all areas of carbon footprint, including the scientific

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elements,
methodological
and technological
aspects,
standards,
industrial case
studies, and
communication of
carbon footprint
results. Written
and edited by an
international group

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of experts, the far-ranging topics on carbon footprinting are divided into three sections comprising chapters focused on methodology, modeling, and case studies. The concepts of carbon footprint and

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climate change are no longer new to the world. As a result, there is increasing interest in quantifying and reducing the carbon footprint around the world, from industrial to individual levels. This book

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describes modeling aspects and calculations of carbon footprint in organizations and production. It emphasizes the importance of locating non-polluting energy sources as well as sustainability. The

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book also provides case studies offering a wealth of information on practices and methods in detecting and addressing carbon footprint. The Carbon Footprint Handbook is an important

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reference that discusses, in depth, the essential details of carbon footprint assessment. It uses research and case studies on methods and practices from locations around the world including

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China, India,
Spain, and Latin
America. It
demonstrates that
the problems of
carbon footprint
are indeed
worldwide while
showing how they
can be addressed
in myriad areas of
life, from industrial

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to personal action.
Anti-Inflammatory
Oxygen Therapy
Chemical
Engineering in the
Pharmaceutical
Industry, Active
Pharmaceutical
Ingredients
Implications of
Climate Change
and Disasters on

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Military Activities
Your Complete
Guide to
Understanding and
Using Natural
Oxygen Therapy
Tep Vol 28-N2-3
Examining the
Impact of
Community
Colleges on the
Global Workforce

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Dinner with Darwin
The International
Conference of
Electronic
Engineering and
Information
Science 2015
(ICEEIS 2015)
was held on
January 17-18,
2015, Harbin,
China. This
proceedings

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volume assembles
papers from
various
researchers,
engineers and
educators
engaged in the
fields of electronic
engineering and
information
science. The
papers in this
proceedings

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This volume
provides
preliminary
recommendations
on ways to
educate and
develop
experience-based
expertise among
disaster response,
security and other
professionals from
diverse

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backgrounds,
whose current and
future interests
relate to crisis
management. The
book takes a
multidisciplinary
approach to
improving regional
security
cooperation and to
addressing the
complex issues of

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climate change
and disasters on
military activities.
The main aims of
this proceedings
volume are: -to
provide an
Education and
Individual Training
Activity Common
Core Curriculum,
whose main
purpose is to

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support increased awareness of the implications of Climate Change;
-to identify broad issues on climate change and disasters, particularly those with the highest importance and relevance to regional security.

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The Crisis
Management and
Disaster Response
Centre of
Excellence
(CMDR COE)
conducted an
Advanced
Research
Workshop
“ Climate Change
Implications on
Military Activities

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in the Balkans
Region ” between
05-07 July, 2016.
The event was
supported by the
NATO Science for
Peace (SPS)
Program and
gathered
distinguished
experts from
various
international

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organizations and
civil-military
agencies.

This book
examines a range
of subjects with a
specific focus on
architectural and
technological
advancements.

Architecture is
the constant
innovation in

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designing for high efficiency in the performance of buildings, in terms of planning, construction and energy, while maintaining creativity in its form. Moreover, the field of architecture goes hand in hand with

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that of technology.
Nowadays,
engineering
technology has to
cope with the
rapid
industrialization
and urbanization
seen in most
countries.
Furthermore,
creative design
and construction

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practices are
challenging tasks
to the architects
and engineers to
meet the ever-
growing demands
of society.

Therefore, this
book on

"Advances in
Engineering
Science and
Architectural

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Design" is
provided to cover
a wide range of
topics in
architecture,
engineering, and
technology.

Mechanics of
Hydraulic
Fracturing
Comprehensive
single-volume
reference work

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providing an
overview of
experimental
results and
predictive
methods for
hydraulic fracture
growth in rocks
Mechanics of
Hydraulic
Fracturing:
Experiment,
Model, and

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Monitoring provides a summary of the research in mechanics of hydraulic fractures during the past two decades, plus new research trends to look for in the future. The book covers the

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contributions from
theory, modeling,
and
experimentation,
including the
application of
models to
reservoir
stimulation,
mining
preconditioning,
and the formation
of geological

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structures. The
four expert
editors emphasize
the variety of
diverse methods
and tools in
hydraulic
fracturing and
help the reader
understand
hydraulic fracture
mechanics in
complex

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geological
situations. To aid
in reader
comprehension,
practical examples
of new
approaches and
methods are
presented
throughout the
book. Key topics
covered in the
book include:

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Prediction of fracture shapes, sizes, and distributions in sedimentary basins, plus their importance in petroleum industry Real-time monitoring methods, such as micro-seismicity and trace tracking

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How to uncover
geometries of
fractures like
dikes and veins
Fracture growth
of individual
foundations and
its applications
Researchers and
professionals
working in the
field of fluid-
driven fracture

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growth will find
immense value in
this
comprehensive
reference on
hydraulic
fracturing
mechanics.

Concepts,
Methodologies,
Tools, and
Applications
Online Teaching

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at Its Best
Assessing
Eyewitness
Identification
Current and
Emerging Trends
in Cyber
Operations
Legacy and
Contribution of
the IFToMM
Community, Part 5
Engineering

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Technology,
Engineering
Education and
Engineering
Management
Neutrosophic Sets
and Systems,
Book Series, Vol.
32, 2020. An
International Book
Series in
Information
Science and

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Engineering
Today, gender
inequality and
diversity are at
the forefront of
discussion, as the
issue has become
an international
concern for
politicians,
government
agencies, social
activists, and the

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general public.
Consequently, the
need to foster and
sustain diversity
and inclusiveness
in the interactions
among various
groups of people
is relevant today
more than ever.

Gender and
Diversity:
Concepts,

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Methodologies,
Tools, and
Applications
provides a critical
look at gender and
modern-day
discrimination and
solutions to
creating
sustainable
diversity across
numerous
contexts and

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fields. Highlighting a range of topics such as anti-discrimination measures, workforce diversity, and gender inequality, this multi-volume book is designed for legislators and policy makers, practitioners,

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academicians,
gender studies
researchers, and
graduate-level
students
interested in all
aspects of gender
and diversity
studies.

This book
highlights leading-
edge research in
multi-disciplinary

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areas in Physics,
Engineering,
Medicine, and
Health care, from
the 6th IRC
Conference on
Science,
Engineering and
Technology (IRC-
SET 2020) held in
July 2020 at
Singapore. The
papers were

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shortlisted after extensive rounds of reviews by a panel of esteemed individuals who are pioneers in their domains.

The book also contains excerpts of the speeches by eminent personalities who graced the

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occasion, thereby providing written documentation of the event.

This book asks what it means to write poetry in and about the Anthropocene, the name given to a geological epoch where humans have a global

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ecological impact.
Combining critical
approaches such
as ecocriticism
and posthumanism
with close reading
and archival
research, it
argues that the
Anthropocene
requires poetry
and the
humanities to find

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new ways of thinking about unfamiliar spatial and temporal scales, about how we approach the metaphors and discourses of the sciences, and about the role of those processes and materials that confound humans '

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attempts to
control or even
conceptualise
them. Poetry and
the Anthropocene
draws on the work
of a series of
poets from across
the political and
poetic spectrum,
analysing how
understandings of
technology shape

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literature about place, evolution and the tradition of writing about what still gets called Nature. The book explores how writers ' understanding of sciences such as climatology or biochemistry might shape their

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poetry ' s form,
and how literature
can respond to
environmental
crises without
descending into
agitprop, self-
righteousness or
apocalyptic
cynicism. In the
face of the
Anthropocene ' s
radical challenges

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to ethics,
aesthetics and
politics, the book
shows how poetry
offers significant
ways of
interrogating and
rendering the
complex
relationships
between
organisms and
their

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environments in a world increasingly marked by technology.

A surge of interest in the geomechanical and petrophysical properties of mudrocks (shales) has taken place in recent years following

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the development of a shale gas industry in the United States and elsewhere, and with the prospect of similar developments in the UK. Also, these rocks are of particular importance in excavation and

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construction
geotechnics and
other rock
engineering
applications, such
as underground
natural gas
storage, carbon
dioxide disposal
and radioactive
waste storage.
They may greatly
influence the

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stability of natural and engineered slopes. Mudrocks, which make up almost three-quarters of all the sedimentary rocks on Earth, therefore impact on many areas of applied geoscience. This volume focuses on

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the mechanical
behaviour and
various physical
properties of
mudrocks. The 15
chapters are
grouped into three
themes: (i)
physical
properties such as
porosity,
permeability, fluid
flow through

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cracks, strength and geotechnical behaviour; (ii) mineralogy and microstructure, which control geomechanical behaviour; and (iii) fracture, both in laboratory studies and in the field.

Intelligence

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Science and Big
Data Engineering.
Big Data and
Machine Learning
INCOSE Systems
Engineering
Handbook
9th International
Conference,
IScIDE 2019,
Nanjing, China,
October 17 – 20,
2019,

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Proceedings, Part
II
Systems
Engineering for
Projects
Handbook of
Research on
Applied E-
Learning in
Engineering and
Architecture
Education
A Guide for

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System Life Cycle
Processes and
Activities
Scholarly
Perspectives on
Image
Manipulation
Advanced
Engineering and
Technology
contains 110
technical papers
from the 2014

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Annual Congress
on Advanced
Engineering and
Technology
(CAET 2014,
Hong Kong, 19-20
April 2014,
including the 4th
Workshop on
Applied Mechanics
and Civil
Engineering,
AMCE 2014). The

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contributions
focus on advanced
theories and
technologies
related to building
engineeri
Bring pedagogy
and cognitive
science to online
learning
environments
Online Teaching
at Its Best: A

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Merger of
Instructional
Design with
Teaching and
Learning
Research is the
scholarly resource
for online learning
that faculty,
instructional
designers, and
administrators
have long been

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awaiting. Over 70 percent of degree-granting institutions offer online classes, and while technical resources abound, the courses often fall short of integrating the best practices in online pedagogy, even if they

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comply with
online course
design standards.
Typically these
standards omit the
best practices in
teaching and
learning and the
principles from
cognitive science,
leaving students
struggling to keep
the pace,

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understand the material, and fulfill their true potential as learners. This book fills the gap, providing evidence-based practices for online teaching, online course design, and online student motivation

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integrated with
pedagogical and
cognitive science
to help you build
the distance
learning courses
and programs
your students
deserve. As more
and more students
opt for distance
learning, it's up to
designers and

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instructors to
rethink traditional
methods and learn
to work more
effectively within
the online learning
environment, and
up to
administrators to
provide the
needed
leadership. Online
Teaching at Its

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Best provides practical, real-world advice grounded in educational science to help online instructors, instructional designers, and administrators deliver an exceptional learning

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experience. Adopt
new pedagogical
techniques
designed
specifically for
online learning
environments
Ensure strong
course alignment
and effective
student learning
for online classes
Increase student

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retention, build
necessary support
structures, and
train faculty more
effectively
Integrate research-
based course
design and
cognitive
psychology into
graduate or
undergraduate
programs

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Distance is no barrier to a great education; what do stand in the way are inadequate online course design and implementation and deficient faculty training and support—all of which administrators can

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mitigate. Online Teaching at Its Best will help you ensure that your online classes measure up to the rigor and quality of excellence in teaching and assessment, build in the personal touch for developing a

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learning
community and
equip your
students to
succeed in the
next challenge.
The integration of
technology in
education has
provided
tremendous
opportunity for
learners of all

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ages. In today's technology-focused society, the traditional classroom setting is being transformed through online learning platforms, collaborative and experimental methods, and

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digital educational resources that go hand-in-hand with non-digital learning devices. The Handbook of Research on Applied E-Learning in Engineering and Architecture Education reviews the latest

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research available
on the
implementation of
digital tools and
platforms within
the framework of
technical
education,
specifically in the
subjects of
architecture and
engineering.

Taking a global

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approach to the
topic of online
learning
environments for
technical
education at all
grade levels, this
comprehensive
reference work is
ideally designed
for use by
educators,
instructional

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designers, and
researchers from
around the world.
This handbook
contains pertinent
research on a
variety of
educational topics
including online
learning
platforms, mobile
and blended
learning,

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collaborative
learning
environments,
gaming in
education,
informal learning,
and educational
assessment.

A guide to the
development and
manufacturing of
pharmaceutical
products written

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for professionals
in the industry,
revised second
edition The
revised and
updated second
edition of
Chemical
Engineering in the
Pharmaceutical
Industry is a
practical book that
highlights

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chemistry and
chemical
engineering. The
book 's regulatory
quality strategies
target the
development and
manufacturing of
pharmaceutically
active ingredients
of pharmaceutical
products. The
expanded second

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edition contains revised content with many new case studies and additional example calculations that are of interest to chemical engineers. The 2nd Edition is divided into two separate books:

1) Active

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Pharmaceutical
Ingredients
(API ' s) and 2)
Drug Product
Design,
Development and
Modeling. The
active
pharmaceutical
ingredients book
puts the focus on
the chemistry,
chemical

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engineering, and
unit operations
specific to
development and
manufacturing of
the active
ingredients of the
pharmaceutical
product. The drug
substance
operations section
includes
information on

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chemical
reactions, mixing,
distillations,
extractions,
crystallizations,
filtration, drying,
and wet and dry
milling. In
addition, the book
includes many
applications of
process modeling
and modern

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software tools
that are geared
toward batch-
scale and
continuous drug
substance
pharmaceutical
operations. This
updated second
edition: •
Contains 30 new
chapters or
revised chapters

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specific to API,
covering topics
including:
manufacturing
quality by design,
computational
approaches,
continuous
manufacturing,
crystallization and
final form,
process safety •
Expanded topics

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of scale-up,
continuous
processing,
applications of
thermodynamics
and
thermodynamic
modeling,
filtration and
drying • Presents
updated and
expanded example
calculations •

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Includes
contributions from
noted experts in
the field Written
for pharmaceutical
engineers,
chemical
engineers,
undergraduate and
graduate students,
and professionals
in the field of
pharmaceutical

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sciences and
manufacturing, the
second edition of
Chemical
Engineering in the
Pharmaceutical
Industry focuses
on the
development and
chemical
engineering as
well as operations
specific to the

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design,
formulation, and
manufacture of
drug substance
and products.
Ecology, biology
and technology in
contemporary
British and Irish
poetry
Experiment,
Model, and
Monitoring

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Shaping Images
Distinguished
Figures in
Mechanism and
Machine Science
Advanced
Engineering and
Technology
Gender and
Diversity:
Concepts,
Methodologies,
Tools, and

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Applications
IAENG
Transactions on
Engineering
Sciences
The Handbook of
Clean Energy
Systems brings
together an
international team
of experts to
present a
comprehensive

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overview of the latest research, developments and practical applications throughout all areas of clean energy systems. Consolidating information which is currently scattered across a wide variety of

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literature sources,
the handbook
covers a broad
range of topics in
this
interdisciplinary
research field
including both
fossil and
renewable energy
systems. The
development of
intelligent energy

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systems for
efficient energy
processes and
mitigation
technologies for
the reduction of
environmental
pollutants is
explored in depth,
and
environmental,
social and
economic impacts

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are also
addressed. Topics
covered include:
Volume 1 -
Renewable
Energy: Biomass
resources and
biofuel production;
Bioenergy
Utilization; Solar
Energy; Wind
Energy;
Geothermal

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Energy; Tidal
Energy. Volume 2
- Clean Energy
Conversion
Technologies:
Steam/Vapor
Power Generation;
Gas Turbines
Power Generation;
Reciprocating
Engines; Fuel
Cells;
Cogeneration and

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Polygeneration.
Volume 3 -
Mitigation
Technologies:
Carbon Capture;
Negative
Emissions
System; Carbon
Transportation;
Carbon Storage;
Emission
Mitigation
Technologies;

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Efficiency
Improvements and
Waste
Management;
Waste to Energy.
Volume 4 -
Intelligent Energy
Systems: Future
Electricity
Markets;
Diagnostic and
Control of Energy
Systems; New

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Electric
Transmission
Systems; Smart
Grid and Modern
Electrical
Systems; Energy
Efficiency of
Municipal Energy
Systems; Energy
Efficiency of
Industrial Energy
Systems;
Consumer

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Behaviors; Load
Control and
Management;
Electric Car and
Hybrid Car;
Energy Efficiency
Improvement.
Volume 5 -
Energy Storage:
Thermal Energy
Storage; Chemical
Storage;
Mechanical

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Storage;
Electrochemical
Storage;
Integrated
Storage Systems.
Volume 6 -
Sustainability of
Energy Systems:
Sustainability
Indicators,
Evaluation
Criteria, and
Reporting;

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Regulation and
Policy; Finance
and Investment;
Emission Trading;
Modeling and
Analysis of
Energy Systems;
Energy vs.
Development; Low
Carbon Economy;
Energy
Efficiencies and
Emission

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Reduction. Key features:
Comprising over 3,500 pages in 6 volumes, HCES presents a comprehensive overview of the latest research, developments and practical applications throughout all

Page 168/274

areas of clean energy systems, consolidating a wealth of information which is currently scattered across a wide variety of literature sources. In addition to renewable energy systems, HCES also covers

Page 169/274

processes for the efficient and clean conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of

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intelligent energy systems.
Environmental, social and economic impacts of energy systems are also addressed in depth. Published in full colour throughout. Fully indexed with cross referencing

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within and
between all six
volumes. Edited
by leading
researchers from
academia and
industry who are
internationally
renowned and
active in their
respective fields.
Published in print
and online. The

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online version is a single publication (i.e. no updates), available for one-time purchase or through annual subscription.

This volume presents the proceedings of the 3rd International Conference on Nanotechnologies

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and Biomedical
Engineering which
was held on
September 23-26,
2015 in Chisinau,
Republic of
Moldova.

ICNBME-2015
continues the
series of
International
Conferences in
the field of

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nanotechnologies
and biomedical
engineering. It
aims at bringing
together scientists
and engineers
dealing with
fundamental and
applied research
for reporting on
the latest
theoretical
developments and

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applications
involved in the
fields. Topics
include
Nanotechnologies
and nanomaterials
Plasmonics and
metamaterials Bio-
micro/nano
technologies
Biomaterials
Biosensors and
sensors systems

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Biomedical
instrumentation
Biomedical signal
processing
Biomedical
imaging and image
processing
Molecular, cellular
and tissue
engineering
Clinical
engineering,
health technology

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management and
assessment;
Health
informatics, e-
health and
telemedicine
Biomedical
engineering
education Nuclear
and radiation
safety and
security
Innovations and

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technology
transfer
Eyewitnesses
play an important
role in criminal
cases when they
can identify
culprits. Estimates
suggest that tens
of thousands of
eyewitnesses
make
identifications in

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criminal
investigations
each year.
Research on
factors that affect
the accuracy of
eyewitness
identification
procedures has
given us an
increasingly clear
picture of how
identifications are

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made, and more importantly, an improved understanding of the principled limits on vision and memory that can lead to failure of identification. Factors such as viewing conditions, duress, elevated

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emotions, and biases influence the visual perception experience. Perceptual experiences are stored by a system of memory that is highly malleable and continuously evolving, neither

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retaining nor
divulging content
in an informational
vacuum. As such,
the fidelity of our
memories to
actual events may
be compromised
by many factors
at all stages of
processing, from
encoding to
storage and

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retrieval.

Unknown to the individual, memories are forgotten, reconstructed, updated, and distorted.

Complicating the process further, policies governing law enforcement procedures for

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conducting and recording identifications are not standard, and policies and practices to address the issue of misidentification vary widely. These limitations can produce mistaken

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identifications
with significant
consequences.
What can we do to
make certain that
eyewitness
identification
convicts the guilty
and exonerates
the innocent?
Identifying the
Culprit makes the
case that better

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data collection and
research on
eyewitness
identification, new
law enforcement
training protocols,
standardized
procedures for
administering line-
ups, and
improvements in
the handling of
eyewitness

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identification in court can increase the chances that accurate identifications are made. This report explains the science that has emerged during the past 30 years on eyewitness identifications and identifies best

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practices in
eyewitness
procedures for the
law enforcement
community and in
the presentation
of eyewitness
evidence in the
courtroom. In
order to continue
the advancement
of eyewitness
identification

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research, the report recommends a focused research agenda.

Identifying the Culprit will be an essential resource to assist the law enforcement and legal communities as they seek to understand the

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value and the
limitations of
eyewitness
identification and
make
improvements to
procedures.
Handbook of
Multiphase Flow
Assurance allows
readers to
progress in their
understanding of

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basic phenomena
and complex
operating
challenges. The
book starts with
the fundamentals,
but then goes on
to discuss phase
behavior, fluid
sampling, fluid
flow properties
and fluid
characterization.

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It also covers flow assurance impedance, deliverability, stability and integrity issues, as well as hydraulic, thermal and risk analysis. The inclusion of case studies and references helps provide an

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industrial focus
and practical
application that
makes the book a
novel resource for
flow assurance
management and
an introductory
reference for
engineers just
entering the field
of flow assurance.
Starts with flow

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assurance
fundamentals, but
also includes more
complex operating
challenges Brings
together cross-
disciplinary
discussions and
solutions of flow
assurance in a
single text Offers
case studies and
reference

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guidelines for
practical
applications
New and Future
Developments in
Microbial
Biotechnology and
Bioengineering
Proceedings of
the International
Conference of
Electronic
Engineering and

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Information
Science 2015
(ICEEIS 2015),
January 17-18,
2015, Harbin,
China
IRC-SET 2020
Electronic
Engineering and
Information
Science
The Carbon
Footprint

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Handbook
Identifying the
Culprit
Proceedings of
the 6th IRC
Conference on
Science,
Engineering and
Technology, July
2020, Singapore
Systems
engineering has

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been applied to
some of the most
important
projects of our
time, including
those that have
helped humanity
explore the
world and the
universe, expand
our technical
abilities, and

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enhance the quality of human life. Without formal training in systems engineering, the discipline is often difficult to understand and apply, and its use within projects is often

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confusing.
Systems
Engineering for
Projects:
Achieving
Positive
Outcomes in a
Complex World
provides an
approach that
utilizes a
combination of

Page 201/274

the most
effective
processes from
both project
management and
systems
engineering
disciplines in a
simplified and
straightforward
manner. The
processes

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described in the book are lightweight, flexible, and tailorable. They provide the shortest path to success in projects across the entire project life cycle, from

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research to
operations, and
from simple to
the most
complex. The
book also
addresses how
this methodology
can be used in a
continually
adapting and
changing world,

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as projects span disciplines and become even more interconnected across all areas of human existence. Each chapter includes diagrams, templates, summary lists, a

Page 205/274

case study, and a thought-provoking question and answer section that assists readers in immediate application of the material to their own projects. The book is a

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project
manager ' s
resource for
understanding
how to directly
apply essential
processes to
projects in a way
that increases
the probability of
achieving
success. It is a

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comprehensive,
go-to manual on
the application of
systems
engineering
processes to
projects of all
types and
complexity.
Two large
international
conferences on

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Advances in
Engineering
Sciences were
held in Hong
Kong, March
12 – 14, 2014,
under the
International
MultiConference
of Engineers and
Computer
Scientists

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(IMECS 2014),
and in London,
UK, 2 – 4 July,
2014, under the
World Congress
on Engineering
2014 (WCE
2014)
respectively.
This volume
contains 37
revised and

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extended
research articles
written by
prominent
researchers
participating in
the conferences.
Topics covered
include
engineering
mathematics,
computer

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science,
electrical
engineering,
manufacturing
engineering,
industrial
engineering, and
industrial
applications. The
book offers
tremendous state-
of-the-art

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advances in
engineering
sciences and
also serves as an
excellent
reference work
for researchers
and graduate
students working
with/on
engineering
sciences. Conten

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ts:Switching
Boundaries for
Flexible
Management of
Natural Resource
Investment
under
Uncertainty (T
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W Chen and C
Bao) Using
Exotic Option

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Prices as Control
Variates in
Monte Carlo
Pricing Under a
Local-Stochastic
Volatility Model
(Geoffrey Lee,
Zili Zhu and Yu
Tian) Multi-
period Dynamic
Portfolio
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Learning (C Bao,
Z Zhu, N
Langren é and G
Lee)On General
Solution of
Incompressible
and Isotropic
Newtonian Fluid
Equations (A A
Maknickas)On

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Matrix via Partial
Fraction
Decomposition
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Coefficients with
Application to
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Protocols (Nadia

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Problems and
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(Wichan Khongtham)
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Iterative Method
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Fixed Points,
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Exponentially
Accelerated

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S Chan) A
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Abdullahi Muaz,
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and Tutut

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Francis E
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Biomolecule
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Mohamed Megue

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Modernizing
Pollution
Warning
Services (Anca
Daniela Ionita
and Mariana
Mocanu)

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Readership:
Professionals,
academics and
graduate
students in
electrical &
electronic
engineering,
computer
engineering,
industrial
engineering and

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mathematics.

Key

Features: This volume contains revised and extended research articles written by prominent researchers participating in the

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conferences The
book offers the
state of art of
tremendous
advances in
engineering
sciences The
book can also
serve as an
excellent
reference work
for researchers

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and graduate
students working
with/on
engineering scie
nces
Keywords: E
ngineering Mathe
matics; Computer
Science; Electrica
l Engineering; Ma
nufacturing Engi
neering; Industria
l Engineering; Ind

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ustrial
Applications
Crop
Improvement
through
Microbial
Biotechnology
explains how
certain
techniques can
be used to
manipulate plant

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growth and
development,
focusing on the
cross-kingdom
transfer of genes
to incorporate
novel
phenotypes in
plants, including
the utilization of
microbes at
every step, from

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cloning and
characterization,
to the production
of a genetically
engineered plant.
This book covers
microbial
biotechnology in
sustainable
agriculture,
aiming to
improve crop

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productivity
under stress
conditions. It
includes sections
on genes
encoding
avirulence
factors of
bacteria and
fungi, viral coat
proteins of plant
viruses,

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chitinase from
fungi, virulence
factors from
nematodes and
mycoplasma,
insecticidal
toxins from
Bacillus
thuringiensis,
and herbicide
tolerance
enzymes from

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bacteria.
Introduces the
principles of
microbial
biotechnology
and its
application in
crop
improvement
Lists various
new
developments in

Page 255/274

enhancing plant
productivity and
efficiency

Explains the
mechanisms of
plant/microbial
interactions and
the beneficial
use of these
interactions in
crop
improvement

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Explores various
bacteria classes
and their
beneficial effects
in plant growth
and efficiency
This book brings
together leading
scholars from
law and other
disciplines to
explore the

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relationship
between law,
technological
innovation, and
regulatory
governance.

Gas

Geochemistry:
New Progresses
and Applications
Poetry and the
Anthropocene

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Civil and
Environmental
Engineering:
Concepts,
Methodologies,
Tools, and
Applications
3rd International
Conference on
Nanotechnologies
and Biomedical
Engineering

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Handbook of
Multiphase Flow
Assurance
The Oxford
Handbook of
Law, Regulation
and Technology
Crop
Improvement
through
Microbial
Biotechnology

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Learn How to
Infuse
Leadership into
Your Passion for
Scientific
Research
Leadership and
Women in
Statistics
explores the role
of statisticians
as leaders, with

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particular
attention to
women
statisticians as
leaders. By
paying special
attention to
women's issues,
this book
provides a clear
vision for the
future of women

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as leaders in
scientific and
It is invisible, it
is powerful, and
it is life
sustaining. It is
oxygen. We
inhale it every
day of our lives,
and while it
makes up only
21 percent of the

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air we breathe, it
is key to our
very existence.
The more we
learn about its
healing
properties, the
more we
recognize its
tremendous
potential as a
medical

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treatment for many serious disorders. Yet few have known about its important therapeutic uses—until now. In his new book, **Anti-Inflammatory Oxygen**

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Therapy, best-selling author Dr. Mark Sircus examines the remarkable benefits oxygen therapy offers, from detoxification to treatments for disorders such as arthritis and

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aging, with a special emphasis on cancer. While the term “ oxygen therapy ” conjures images of a crucially ill patient lying in a hospital bed with tubes strapped to his face, this

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book will show that oxygen can offer so much more. Dr. Sircus first looks at the nature of oxygen and its purpose in the body. He then provides an understanding of how inflammation

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works to destroy the body ' s tissues over time, and how oxygen can reverse this process. He examines the current treatments that use hyperbaric oxygen

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chambers as well as newer protocols that employ this vital element. In addition, Dr. Sircus offers a simple, safe, and highly effective fifteen-minute technique that can be used in

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the privacy of
your home so
that you can
enjoy maximum
benefits for a
healthier life. If
you are
wondering why
you haven ' t
heard about this
“ miracle ”
treatment

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before, the truth is that oxygen cannot be patented, it is not expensive, and you don ' t have to be a specialist to use it. Without a tremendous profit behind it, it ' s become a

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well-kept secret,
but the facts
speak for
themselves. In
this book, you
will learn these
life-altering
facts—information
that could
change your
health for the
better.

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Policy, Strategy and Practice